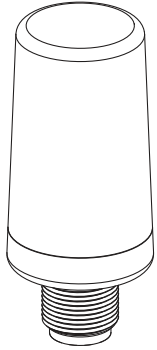


Catalog Numbers • Les Numéros de Catalogue • Los Números de Catálogo: RACCESS-ANTKIT

Country of Origin: Made in U.S.A • Pays d'origine: Fabriqué en Etats-Unis • País de origen: Hecho en Estados Unidos de America

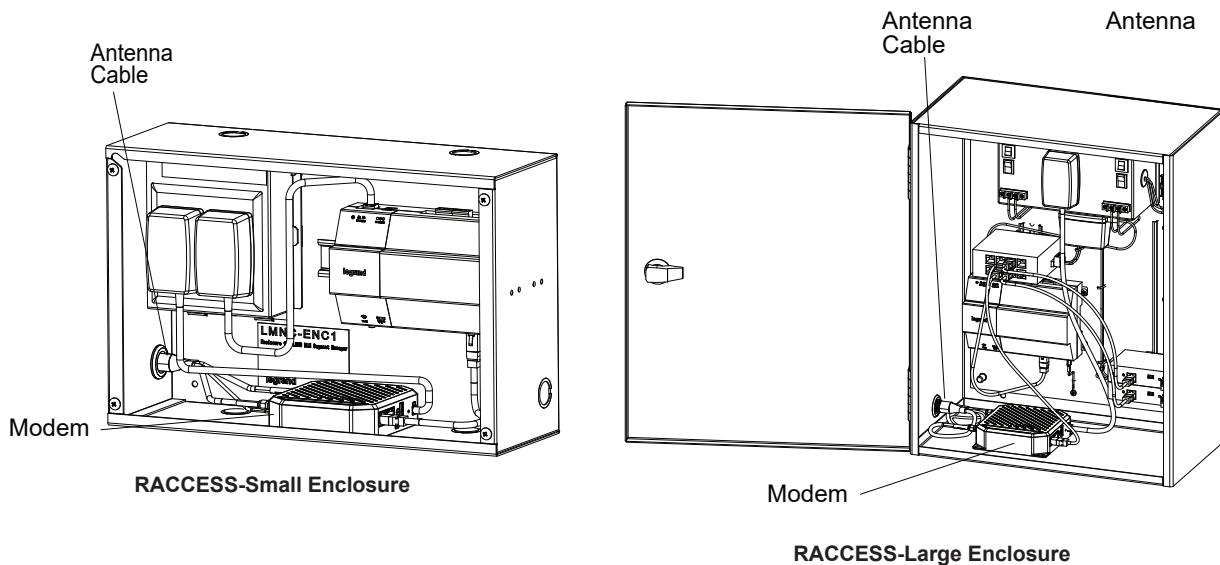


EXTENDED ANTENNA MOUNTING INSTRUCTIONS

The following instructions are specific to the extended antenna with a RACCESS-Small Enclosure or RACCESS-Large Enclosure.

The remote antenna kit includes the following items

- 1 x 3G/4G Multi-Band (698-960, 1700-2700 MHz) Phantom Antenna
- 1 x Mounting L-Bracket with hardware (3 Phillips head screws)
- 1 x LMR400 50 Ft. RF Cable, SMA-Male/N-Male



Remove Magnetic Mount Antenna (if already installed)

1. Unscrew cable connected to the "Cellular Antenna Connector" modem ports.
2. Pull cable out of cabinet and set antenna/cable aside.

Select a Mounting Location for the Remote Extended Antenna

The antenna must be installed **indoors**. The following locations are preferred for best signal.

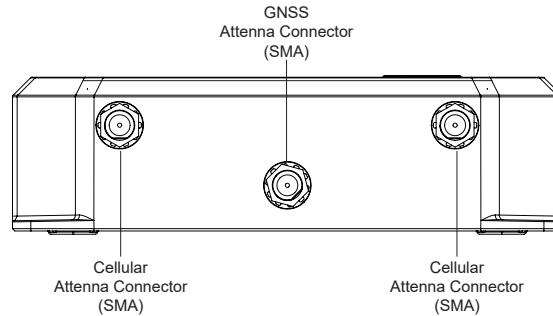
- Upper levels of a building, above the ground floor are ideal.
- Near windows, preferably facing known good cellular reception.
- Open spaces are better than near walls
- Below steel beams
- Keep away from:
 - ▶ Transformers
 - ▶ Electric motors used in fans or other devices
 - ▶ Walls of any material type
 - ▶ Metallic ductwork

IMPORTANT - Due to signal strength variation inside of buildings, avoid permanently mounting the cable and antenna until connectivity is confirmed with the Wattstopper Remote Operations Center (888.740.7950). The cable and antenna may need to be rerouted for adequate cellular service.

Hint: Wattstopper uses Verizon for its cellular carrier, so if you have a Verizon cell phone, you can use it to initially check signal strength.

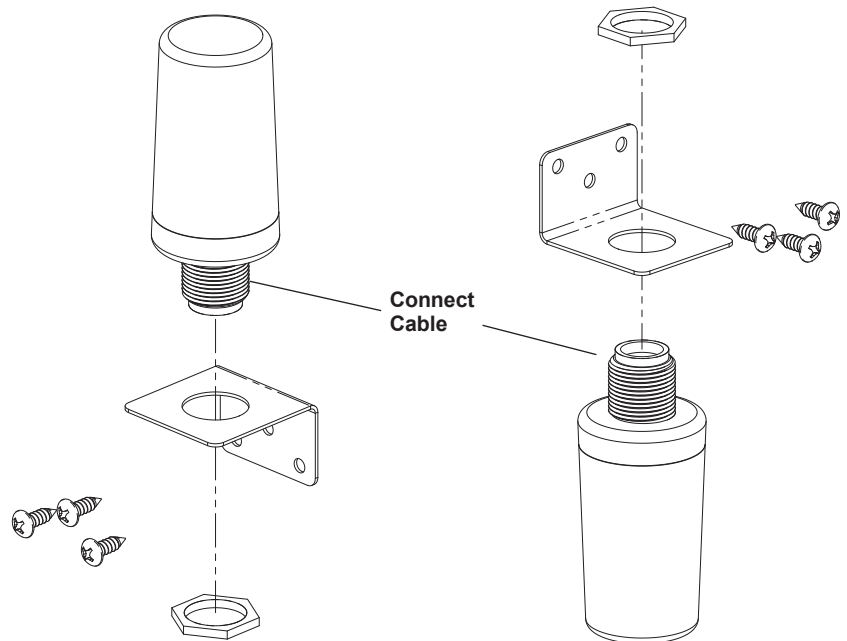
Remote Cable Installation

1. Be sure to protect both ends of the cable from collecting any debris when pushing cable through walls or other enclosed spaces.
2. The ends of the cable are different. The two small SMA-Male connectors are used with the modem while the large N-Male connector is used with the antenna.
3. The network enclosure includes a grommet opening to allow the cable to pass into the enclosure. With the end of the cable inside the enclosure, connect each SMA antenna connector to the Cellular Modem SMA connectors. It doesn't matter which end goes to which connector. Do not over tighten with tools.
4. The cable should **not** be allowed to kink or be bent at sharp angles. Minimum bend radius is 4".
5. The cable should **not** be run in parallel near exposed power lines for more than several feet. Ideally, the antenna cable should cross any AC carrying conductors at a 90 degree angle.
6. Excess cable should be looped near the ceiling above the cabinet, not inside the cabinet.



Installing and Connecting the Remote Extended Antenna

1. The antenna must be installed vertically (up or down). It must be **indoors**. Avoid mounting directly to metal substructures.
2. After determining an appropriate spot for the mounting bracket, attach it using the included screws. Remove the hex nut from the antenna, insert the antenna into the mounting bracket, and reattach the hex nut to secure the antenna.
3. Connect the cable to the antenna. Coil and tie wrap any additional cable length and secure it.
4. Verify signal strength before securing the antenna by contacting the Wattstopper Remote Operations Center at 1-888-740-7950.
5. If a drop ceiling is used, the antenna should be installed above the tiles and away from the drop tile metallic grid. The remote antenna location should be indicated on the as-built documentation.



Mount antenna pointing up or down.

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